

CERTIFICATION R97-07/001

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
GENERAL RULE 97 CERTIFICATION OF APPROVAL
AUTHORIZING MOSQUITO CONTROL
IN SURFACE WATERS

In compliance with the provisions of Part 31, Water Resources Protection, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended (Act 451), and R 323.1097 promulgated there under, certain pesticides are authorized to be applied to surface waters of the state to control the larval and pupal stages of mosquitoes by individuals submitting a complete Notification of Intent to treat under this certification. The Notification of Intent and instructions for its submittal are available from the Michigan Department of Environmental Quality (MDEQ), Water Bureau, or from the web site at www.michigan.gov/deg utilizing the MDEQ Site Map. This certification does not authorize any of the following:

- a) The application of pesticides to control adult mosquitoes (adulticiding).
- b) The application of pesticides to surface waters of the state containing state or federal endangered or threatened species pursuant to Part 365, Endangered Species Protection, of Act 451. Information on endangered and threatened species is available at www.michigan.gov/dnr.
- c) The application of pesticides to waters in a wastewater treatment system covered by a National Pollution Discharge Elimination System permit or to storm water catch basins.

The application of pesticides to surface waters of the state is authorized by this certification only under the following conditions:

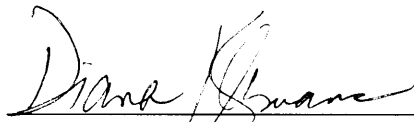
1. The Notification of Intent must be submitted by one of the following entities:
 - (a) A person or entity who owns the property to be treated or who is the bottomland owner of the surface water body.
 - (b) A lake board established under Part 309, Inland Lake Improvements, of Act 451
 - (c) A state or local government acting under authority of state law.
 - (d) A person who has written authorization to act on behalf of an entity in (a), (b), or (c).
2. The application of pesticides shall be conducted according to all pertinent label instructions and additional restrictions identified in this certification, only during ice free conditions, and should be in consideration of integrated pest management options.
3. The application of the pesticides shall be for the control of larval and pupal stages of the mosquito only. Pesticides used for the control of mosquito larvae and pupae must be registered by the Michigan Department of Agriculture for sale and distribution in the state of Michigan. The following web site provides information regarding the registration of

pesticides in Michigan: www.michigan.gov/mda/. The application of “biological” pesticides (bacterial strains) should be given preference over the use of “chemical” (non-biological) pesticides.

4. Only the following pesticides are authorized to be used in surface waters of the state and under the specified conditions:
 - (a) *Bacillus thuringiensis israeliensis* (B.t.i.) and *Bacillus sphaericus* may be used for the control of mosquito larvae in surface waters.
 - (b) Methoprene may be used for the control of mosquito larvae and pupae in surface waters.
 - (c) Monomolecular Surface Films (MSFs) may be used for the control of mosquito larvae and pupae. The application of MSFs to flowing water is not approved. The application of MSFs to roadside ditches (non-flowing) and seasonally flooded woodlots is approved according to label restrictions and application rates. The application of MSFs to lakes, ponds, and wetlands shall be restricted to the edges of the water bodies, and to those with no inlet or outlet.
 - (d) Larviciding Oils may be used for the control of mosquito larvae and pupae. Close surveillance of mosquito developmental stages to allow for use of biological agents (B.t.i. and *Bacillus sphaericus*) and techniques is recommended to reduce the need for larviciding oils. The application of larviciding oils to flowing water is not approved. The application of larviciding oils to marshes and swamps shall be restricted to the edges of the water bodies. The application of larviciding oils to non-flowing roadside ditches is approved to control the larval and pupal stages of mosquitoes. The application of larviciding oils to temporarily flooded fields and woodlots (not floodplains) is approved if the flooded areas do not have a connection to another water body and do not contain aquatic life other than mosquito larvae.
5. The District Supervisor of the Water Bureau shall be notified prior to initiating treatments. A list of MDEQ district boundaries, Water Bureau District Supervisors, and contact information is provided in Attachment 1.
6. The entity submitting the Notification of Intent shall retain records identifying treatment locations, dates of treatment, pesticide applicator(s) (if applicable), pesticides used at each location, and any written authorization obtained to comply with item 1 for five years from date of treatment. These records shall be available for MDEQ inspection upon request. Commercial pesticide applications must also comply with the record keeping requirements under Michigan Department of Agriculture's Regulation 636, Rule 15.
7. In the event that any condition of this Certificate of Approval may not be met, the applicant shall immediately notify the District Supervisor responsible for the area where the treatment occurred.
8. The issuance of this certification does not authorize violation of any federal, state or local laws or regulations, nor does it obviate the necessity of obtaining such permits, including any other MDEQ permits, or approvals from other units of government as may be required by law.

Upon acknowledgement that a complete Notification of Intent has been received, the applicant is authorized to commence pesticide treatment in compliance with this certification. Acknowledgement of receipt of the Notification of Intent can be determined at www.michigan.gov/deg utilizing the MDEQ Site Map or by contacting Ms. Rosalie Mascho at 517-335-1180, or by e-mail at maschor@michigan.gov

Issued this 13th day of February 2007, by the MDEQ and shall expire at midnight, December 31, 2007.

A handwritten signature in black ink, appearing to read "Diana Klemans", written over a horizontal line.

Diana Klemans, Chief
Surface Water Assessment Section
Water Bureau

Attachment

Attachment 1

District Supervisor Contacts

DISTRICT	CONTACT	COUNTIES
Cadillac District Office 120 West Chapin Street Cadillac, MI 49601-2158	Mike Stifler stiflerm@michigan.gov 231-775-3960, Ext. 6260	Alcona, Alpena, Antrim, Benzie, Charlevoix, Cheboygan, Crawford, Emmet, Grand Traverse, Kalkaska, Lake, Leelanau, Manistee, Mason, Missaukee, Montmorency, Osceola, Oscoda, Otsego, Presque Isle, Roscommon, Wexford
Grand Rapids District Office State Office Building, 6 th Floor 350 Ottawa Avenue NW Grand Rapids, MI 49503-2341	Dave Timm timmd@michigan.gov 616-356-0277	Barry, Ionia, Kent, Montcalm, Mecosta, Muskegon, Newaygo, Oceana, Ottawa
Jackson District Office Jackson State Office Building 301 E. Louis Glick Highway Jackson, MI 49201-1556	Jon Russell russelje@michigan.gov 517-780-7837	Hillsdale, Jackson, Lenawee, Monroe, Washtenaw
Kalamazoo District Office 7953 Adobe Road Kalamazoo, MI 49009-5026	Greg Danneff danneffg@michigan.gov 269-567-3575	Allegan, Calhoun, Kalamazoo, VanBuren, Berrien, Branch, Cass, St. Joseph
Saginaw Bay District Office 503 N. Euclid Avenue, Suite 1 Bay City, MI 48706-2965	Jon Bloemker bloemkej@michigan.gov 989-686-8025, Ext. 8380	Arenac, Bay, Clare, Gladwin, Huron, Iosco, Isabella, Midland, Ogemaw, Saginaw, Sanilac, Tuscola
Lansing District Office P.O. Box 30242 Lansing, MI 48909-7742	Tim Benton bentont@michigan.gov 517-335-4523	Clinton, Eaton, Genesee, Gratiot, Ingham, Lapeer, Livingston, Shiawassee
Southeast Michigan District Office 27700 Donald Court Warren, MI 48092	Patricia Huddas huddasp@michigan.gov 586-753-3773	Macomb, Oakland, St. Clair, Wayne
Upper Peninsula District Office KI Sawyer International Airport & Business Center 420 Fifth Street Gwinn, MI 49841	Steve Casey caseys@michigan.gov 906-346-8535	Alger, Baraga, Chippewa, Delta, Dickenson, Gogebic, Houghton, Iron, Luce, Keweenaw, Mackinac, Marquette, Menominee, Ontonagon, Schoolcraft